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Quantum Optical Control of Levitated Solids: a novel probe for the gravity-quantum interface

Thursday, 28 November 2019 14:30 (1 hour)

The increasing level of control over motional quantum states of massive, solid-state mechanical devices opens the door to an hitherto unexplored parameter regime of macroscopic quantum physics. I will report on our recent progress towards controlling levitated solids in the quantum regime. I will discuss the prospects of using these systems for fundamental tests of physics, including the interface between quantum and gravitational physics.

Presenter: Prof. ASPELMEYER (VIENNA UNIV.), Markus (Vienna Univ.)

Session Classification: General LNF Seminar